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Economic Analysis
F&V. AMES

COLOR REQUIREMENTS IN
UNITED STATES STANDARDS FOR GRADES OF
APPLES



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
FRUIT AND VEGETABLE DIVISION

COLOR REQUIREMENTS

§ 51.305 Color requirements

In addition to the requirement specified for the grades set forth in §§51.300 to 51.304 apples of these grades shall have the percentage of color specified for the variety in Table I appearing in this section. For the solid red varieties the percentage stated refers to the area of the surface which must be covered with a good shade of solid red characteristic of the variety: *Provided*, That an apple having color of a lighter shade of solid red or striped red than that considered as a good shade of red characteristic of the variety may be admitted to a grade, provided it has sufficient additional area covered so that the apple has as good an appearance as one with the minimum percentage of good red characteristic of the variety required for the grade. For the striped red varieties the percentage stated refers to the area of the surface in which the stripes of a good shade of red characteristic of the variety shall predominate over stripes of lighter red, green, or yellow. However, an apple having color of a lighter shade than that considered as a good shade of red characteristic of the variety may be admitted to a grade, provided it has sufficient additional area covered so that the apple has as good an appearance as one with the minimum percentage of stripes of a good red characteristic of the variety required for the grade. Faded brown stripes shall not be considered as color except in the case of the Gray Baldwin variety.

(a)

Color standards USDA Visual Aid APL-L-1 (including plates (A), (B), (C), (D), (E), and (F)) consist of a folder containing the color requirements for apples set forth in this section and five plates illustrating minimum good shade of solid red or striped red color, minimum compensating color and a shade not considered color, for Red Delicious, Winesap, Delicious, McIntosh, and Jonathan varieties, and one plate illustrating minimum white or light green color and characteristic color for the Golden Delicious variety. These color standards may be examined in the Fruit and Vegetable Division, AMS, U.S. Department of Agriculture, South Building, Washington, D.C. 20250; in any field office of the Fresh Fruit and Vegetable Inspection Service; or upon request of any authorized inspector of such Service. Duplicates of the color standards may be purchased from the John Henry Co., Post Office Box 1410, Lansing, MI 48904.

TABLE I—COLOR REQUIREMENTS FOR SPECIFIED U.S. GRADES OF APPLES BY VARIETY

Variety	U.S. Extra Fancy	U.S. Fancy	U.S. No. 1
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Solid Red:			
Black Ben	66	40	25
Gano	66	40	25
Winesap	66	40	25
Other similar varieties ¹	66	40	25
Red Sport varieties ²	66	40	25
Striped or partially red:			
Jonathan	66	33	25
McIntosh	50	33	25
Cortland	50	33	25
Other similar varieties ³	50	33	25
Rome Beauty	50	33	15
Stayman	50	33	15
York Imperial	50	33	15
Baldwin	50	25	15
Ben Davis	50	25	15
Delicious	50	25	15
Mammoth Black Twig	50	25	15
Turley	50	25	15
Wagener	50	25	15
Wealthy	50	25	15
Willow Twig	50	25	15
Northern Spy	50	25	15
Other similar varieties ⁴	50	25	15
Hubbardston	50	15	10
Stark	50	15	10
Other similar varieties	50	15	10
Red June	50	15	(⁵)
Red Gravenstein	50	15	(⁵)
Williams	50	15	(⁵)
Other similar varieties	50	15	(⁵)
Gravenstein	25	10	(⁸)
Duchess	25	10	(⁵)
Other similar varieties ⁶	25	10	(⁵)
Red cheeked or blushed:			
Maiden Blush	(⁷)	(⁵)	(⁸)
Twenty Ounce	(⁷)	(⁵)	(⁸)
Winter Banana	(⁷)	(⁵)	(⁸)
Other similar varieties	(⁷)	(⁵)	(⁸)
Green varieties	(⁹)	(⁹)	(⁹)
Yellow varieties	(⁹)	(⁹)	(⁹)
Golden Delicious	(¹⁰)	(¹⁰)	(⁹)

¹ Arkansas Black, Beacon, Detroit Red, Esopus Spitzenburg, King David, Lowry, Minjon.

² When Red Sport varieties are specified as such they shall meet the color requirements specified for Red Sport varieties.

³ Haralson, Kendall, Macoun, Snow (Fameuse).

⁴ Bonum, Early McIntosh, Limbertwig, Milton, Nero, Paragon, Melba.

⁵ Tinge of color.

⁶ Red Astrachan, Smokehouse, Summer Rambo, Dudley.

⁷ Blush Cheek.

⁸ None.

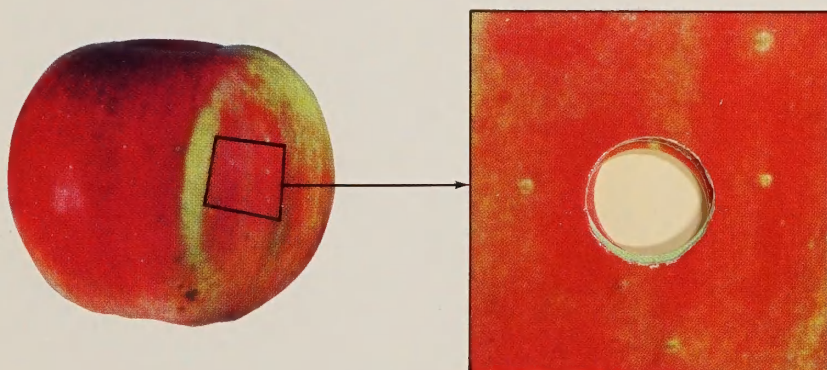
⁹ Characteristic ground color.

¹⁰ 75 percent or more of the surface of the apple shall show white or light green predominating over the green color.

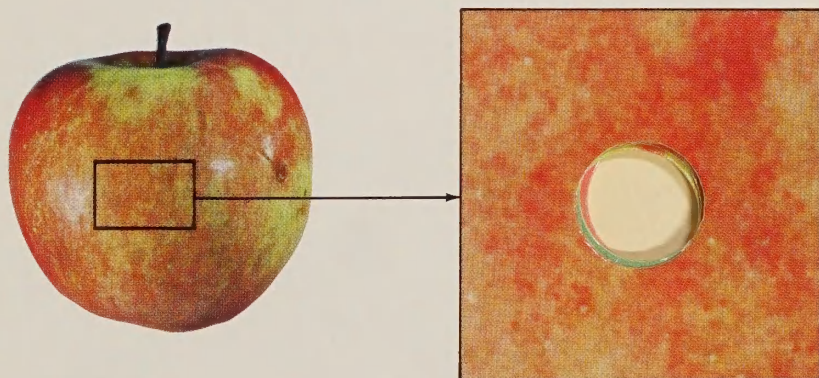
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JONATHAN

(STRIPED OR
PARTIALLY RED
VARIETY)



MINIMUM GOOD SHADE
OF STRIPED RED COLOR.



"MINIMUM COMPENSATING
COLOR". COLOR LIGHTER
THAN A GOOD SHADE OF
STRIPED RED.



NOT TO BE CONSIDERED
AS COLOR.

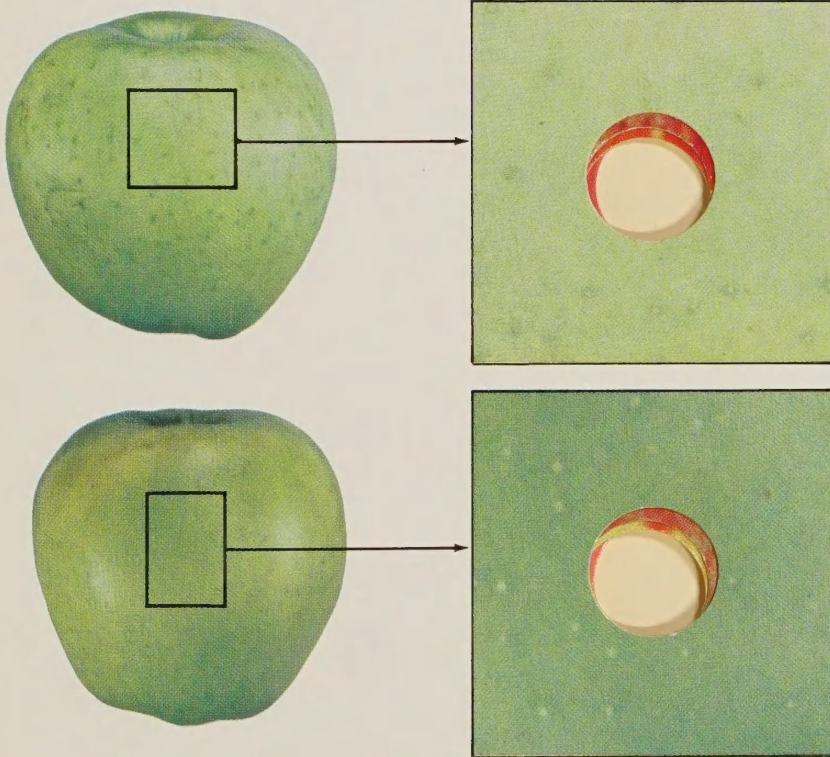
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GOLDEN DELICIOUS

(YELLOW VARIETY)



MINIMUM WHITE OR
LIGHT GREEN COLOR.

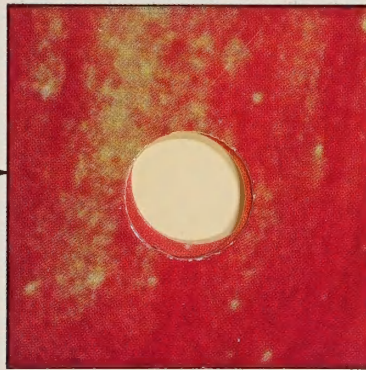
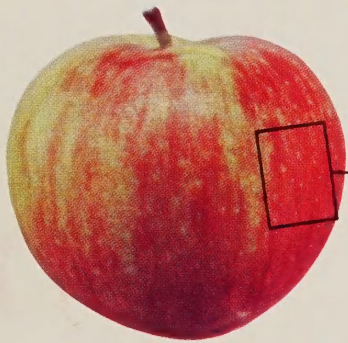
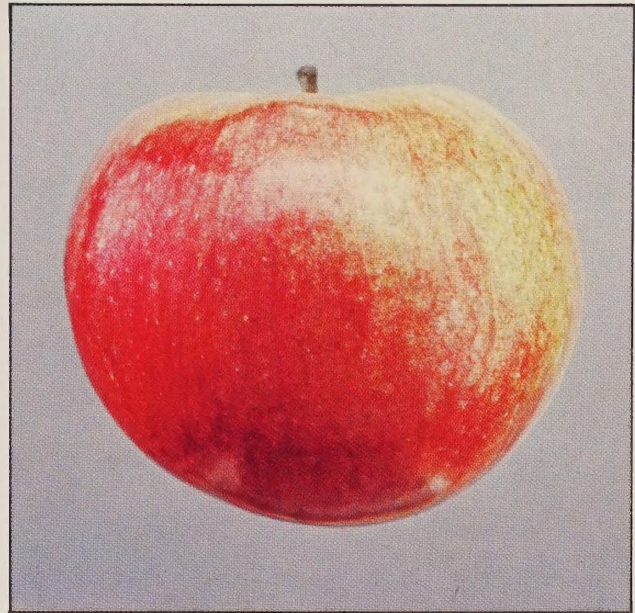
CHARACTERISTIC COLOR.

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Soy

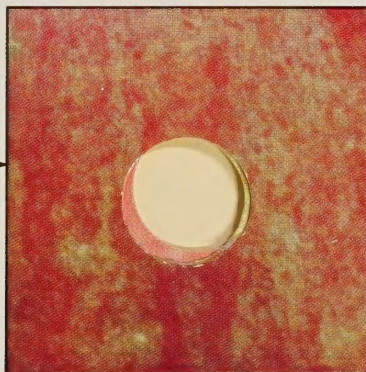
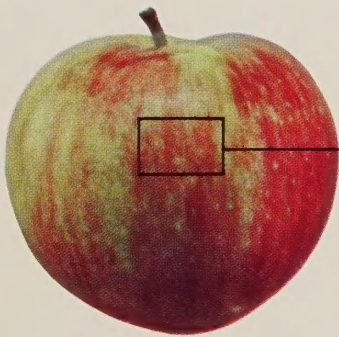
Blush . .
Ounce . .
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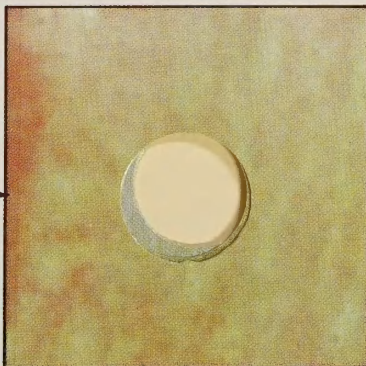
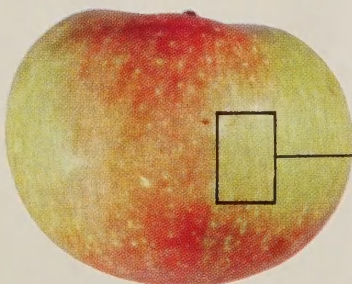
(STRIPED OR
PARTIALLY RED
VARIETY)



MINIMUM GOOD SHADE
OF STRIPED RED COLOR.



"MINIMUM COMPENSATING
COLOR". COLOR LIGHTER
THAN A GOOD SHADE OF
STRIPED RED.

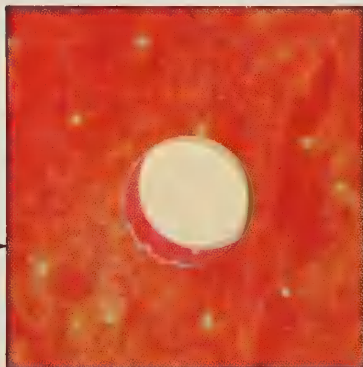


NOT TO BE CONSIDERED
AS COLOR.

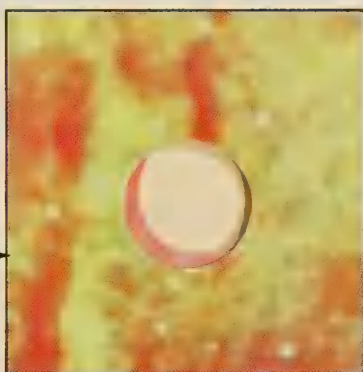
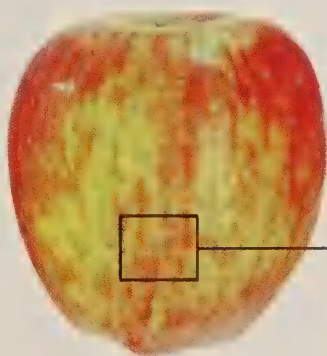


DELICIOUS

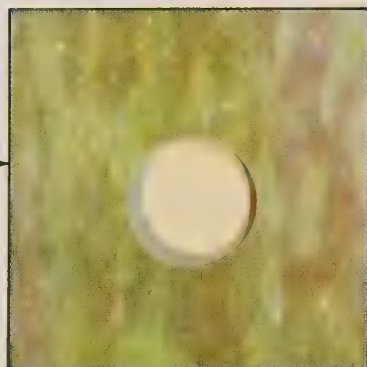
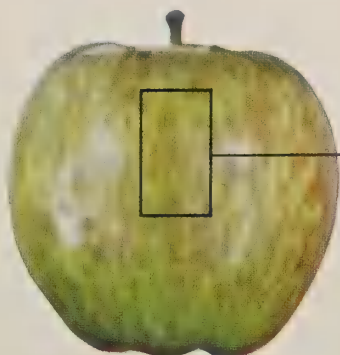
(STRIPED OR
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VARIETY)



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"MINIMUM COMPENSATING
COLOR". COLOR LIGHTER
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STRIPED RED.



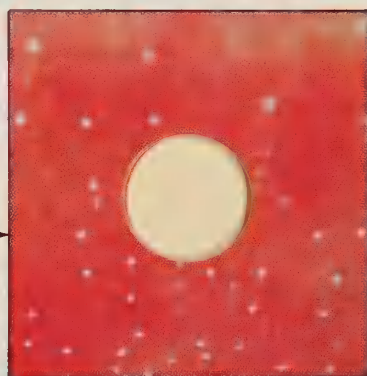
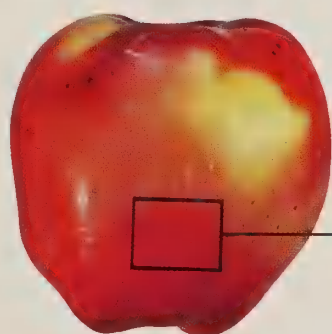
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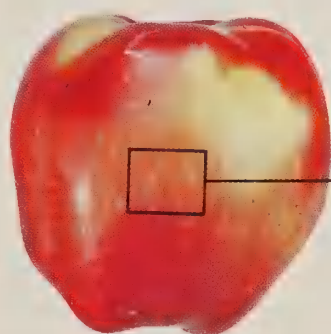
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RED DELICIOUS

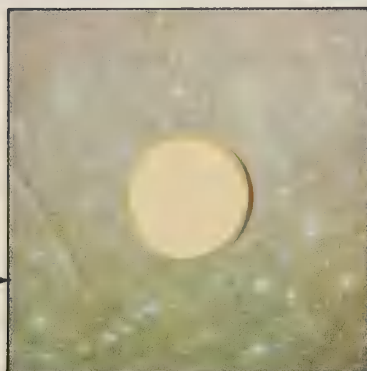
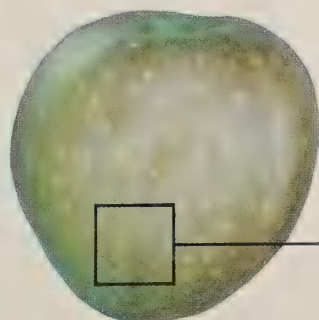
(RED SPORT VARIETIES)



MINIMUM GOOD SHADE
OF SOLID RED COLOR.



"MINIMUM COMPENSATING
COLOR". COLOR LIGHTER
THAN A GOOD SHADE
OF RED.

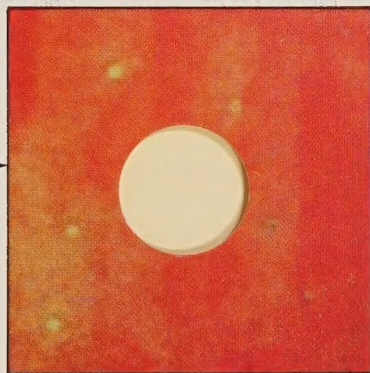
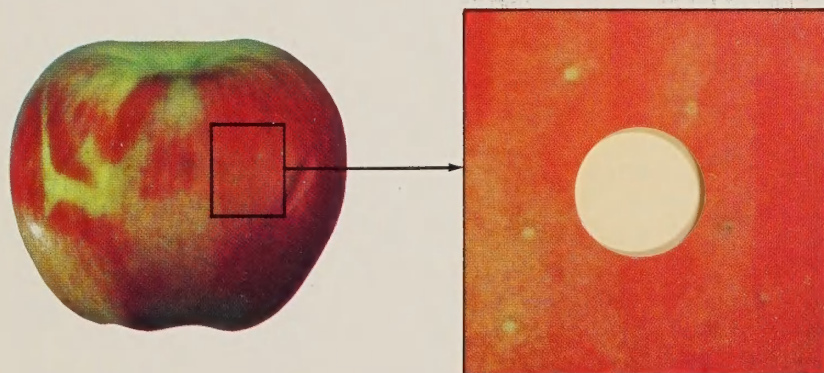


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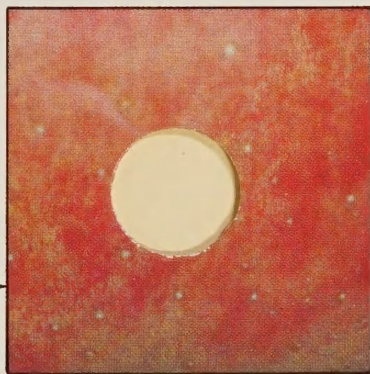
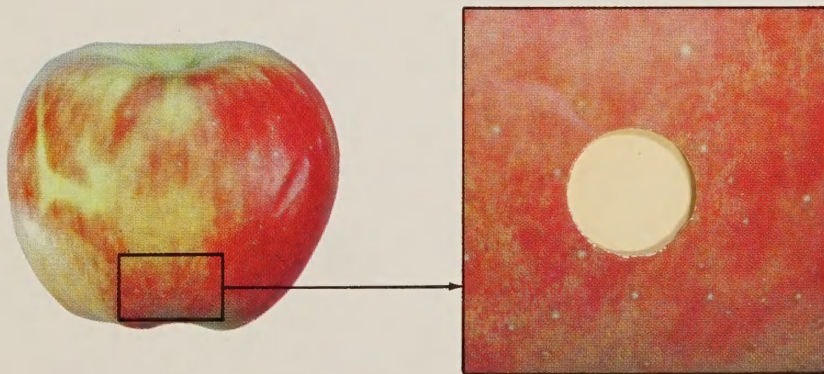


WINESAP

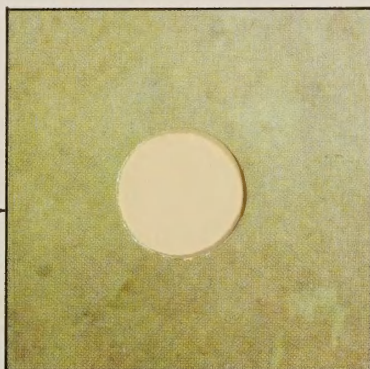
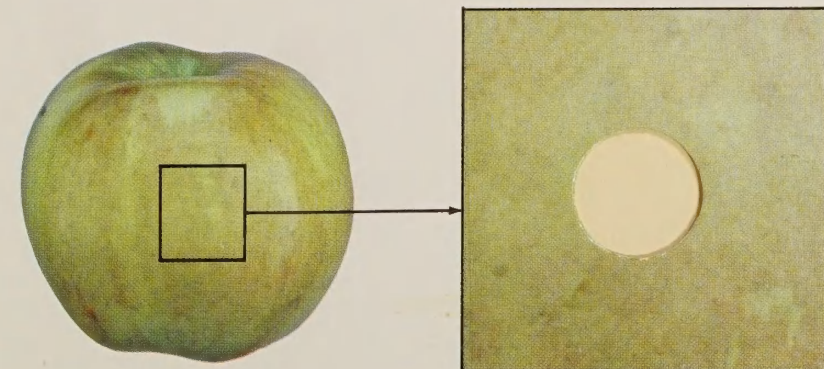
(SOLID RED VARIETY)



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